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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

UTILITY PATENT APPLICATION TRANSMITTAL LETTER



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Atty./Agent Docket No.: CS10557 Mailing Date: Herewith Express Mail Label No.: EL541224298US

To: Assistant Commissioner for Patents Box Patent Application

Washington, D.C. 20231		
Dear Sir:		
Transmitted herewith for filing under 37 CFR 1.53 (b) is a Nonprovisional Utility Patent:		
X_New Application; or aContinuation,Division, orContinuation-in-Part (CIP) Application of prior US application No/, filed on, having US Examiner, in Group Art Unit; of		
Inventor(s): William P. Alberth Jr., Mike Kotzin and Rob Bero		
For (Title): Method And Apparatus For Storing A Message For Playback During A User-Initiated Emergency Telephone Call From A Wireless Device		
This transmittal letter has 2_ total pages.		
Enclosed are:		
X 3 sheets of drawings, along with 19 pages of specification and claims,		
XOath or Declaration Combined with Power of Attorney (3 pages)x Newly Executed (original or copy) Copy from a prior application (if this is a Continuation/Division with no new matter) Statement deleting named inventor(s) in prior application if this is a Continuation/Division (See 37 CFR 1.63(d)(2) and 1.33(b).) Consider as the above Statement, Please delete as inventors for this application the following inventors named in the prior application:		
A certified copy of a (non-US) application S/N/, having a filing date of, and foreign priority to this non-US application for the present application is hereby claimed under 35 USC 119.		
x An Assignment Transmittal Letter and Assignment of the invention to MOTOROLA, INC.		
An Information Disclosure Statement (IDS), with <u>one PTO-1449</u> , and1_ citation copies.		
Preliminary Amendment		
X Return Receipt Postcard		
Petition For Extension of Time for parent application of the present Continuation/Division/CIP application		

Instructions:

Incorporation by Reference (for Continuation/Division application) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

the specification by adding	on is based on a prior US application, please amend the following sentence before the first sentence of the specification:
	based on prior US application No,
	which is hereby incorporated by reference, and priority thereto for
common subject matter is h	nereby claimed."
Please cancel filed claims	<u>.</u>

X The filing fee is calculated as follows:

CLAIMS AS FILED, LESS ANY CANCELED BY AMENDMENT

	NUMBER OF CLAIMS	NUMBER EXTRA	RATE	FEE
TOTAL CLAIMS	30- 20 =	10	X \$18	= \$180.00
INDEPENDENT CLAIMS	4-3=	1	X \$78	= \$78.00
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Please forward all correspondence to: Ray Warren (PJB) Motorola, Inc. Personal Communications Sector 600 North US Highway 45 Libertyville, IL 60048 Printed Name:Paul J. Bartusiak

Agent for Applicant(s) Registration No. 42,300 MOTOROLA, INC. Phone: (847) 523-1268

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METHOD AND APPARATUS FOR STORING A MESSAGE FOR PLAYBACK DURING A USER-INITIATED EMERGENCY TELEPHONE CALL FROM A WIRELESS DEVICE

The present invention relates to the telecommunication arts. It finds particular application in conjunction with a method and apparatus for storing an audio and/or data message for playback during a user-initiated emergency telephone call from a wireless device, and will be described with particular reference thereto.

Background of the Invention

Many people have pre-existing medical conditions

10 (e.g. heart conditions, severe Diabetes, etc.) that could
predictably cause a wireless device (e.g. cellular phone)
user to initiate an emergency telephone call (e.g. an
emergency 911 call) at some unexpected point in time.
Unfortunately, with such medical conditions, it is

15 foreseeable that the user may become incapacitated either
during or shortly after initiating the E911 call. If such
an event were to occur, the cellular phone user would be
unable to apprise the E911 operator of the exact nature of
the emergency and of where the user is located.

Accordingly, it has been considered desirable to develop a new and improved method and apparatus for storing an audio and/or data message for playback during a user-initiated emergency telephone call from a wireless device that meets the above-stated needs and overcomes the foregoing difficulties and others while providing better and more advantageous results.

For instance, one advantage of the present invention is the provision of a method and apparatus that permits a user to record or upload a message into a 30 wireless device, which message will be played back to an

E911 operator in the event that the wireless device user is able to initiate an E911 call but is subsequently incapacitated.

Another advantage of the present invention is the 5 provision of a wireless device that provides the ability to store an audio or data message (or messages) and to replay the stored message once an E911 telephone call has been established.

Yet another advantage of the present invention is 10 the provision of a wireless device that permits a user to store a voice or data message (or messages) that would be sent when an emergency call (E911) is made.

Still another advantage of the present invention is the provision of a wireless device that stores voice 15 signals (using voice annotation) or sounds made by the wireless device phone user after an emergency call is initiated.

A further advantage of the present invention is the provision of a wireless device that plays back a stored 20 message across the uplink channel in response to a particular command (DTMF signal) sent across the downlink channel.

A still further advantage of the present invention is the provision of a wireless device that plays 25 back a stored message across the uplink channel if a call is established and voice is not detected by the originating device within a predetermined time.

A still further advantage of the present invention is the provision of a wireless device that 30 terminates playback of a stored message if the originating device detects voice activity on the uplink channel.

Yet another advantage of the present invention is the provision of a wireless device that reclaims and allocates used memory to voice annotation if an E911 event 35 occurs.

Still further advantages of the present invention will become apparent to those of ordinary skill in the art upon reading and understanding the following detailed description of the preferred embodiments.

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Brief Description of the Drawings

The invention may take form in various components and arrangements of components, and in various steps and arrangements of steps. The drawings are only for purposes of illustrating a preferred embodiment(s) and are not to be construed as limiting the invention.

Figure 1 is a simplified block diagram of an exemplary wireless device that incorporates the features of the present invention therein;

15 Figure 2 is an operational flowchart for a first method of practicing the present invention; and

Figure 3 is an operational flowchart for an alternate method of practicing the present invention.

20 Detailed Description of the Invention

With reference now to Figure 1, there is shown a simplified block diagram of an exemplary wireless or mobile device 10. The wireless device 10 can be a telephone, a cable telephony interface device, a cellular or PCS radiotelephone, a cordless radiotelephone, a radio, a personal digital assistant (PDA), a pager, a palm-top computer, a personal computer, etc. Accordingly, as used herein, wireless device refers to each of these devices and their equivalents.

30 The device 10 includes a transceiver 12, transceiver antenna 14, microprocessor-based controller 16, memory 18 (e.g. flash EEPROM), keypad 20, transducers 22 (e.g. microphone, speaker), geolocation receiver 24, and geolocation receiver antenna 26. The wireless device 10 is 35 adapted communicate (i.e. transmit to and receive communication signals such as data and voice) over a public

(PSTN) switched telephone network via а cellular radiotelephone system such as a code-division multiple access (CDMA) cellular radiotelephone system, time-division cellular radiotelephone multiple access (TDMA) 5 global system for mobile communication (GSM) radiotelephone system, etc.

cellular radiotelephone system generally includes a switch controller coupled to a public switched telephone network (PSTN) and a plurality of base stations. 10 Each of the plurality of base stations generally defines a geographic region proximate to the base station to produce coverage areas. One or more mobile stations (i.e. wireless devices) communicate with a base station that facilitates a call between the mobile station and the public switched 15 telephone network.

Δ

The geolocation receiver 24 and 26 antenna with embedded provide the wireless device 10 GPS capability. GPS capability means the ability to self determine position through the use of the GPS constellation 20 of satellites. The Global Positioning System (GPS) may be used to determine the position of a GPS receiver on or near the surface of the earth from signals received from a constellation of satellites. The orbits of the GPS satellites are arranged in multiple planes in order that 25 signals can be received from at least four satellites at any position on earth. More typically, signals are received from six or eight satellites at most places on the earth's surface. Orbits of GPS satellites are determined with accuracy from fixed ground stations and are relayed to The latitude, longitude, and altitude of 30 the spacecraft. any point close to the surface of the earth can be calculated from the times of οf propagation the electromagnetic signals from four or more of the satellites.

35 A measured range, referred to as a "pseudorange", is determined between the GPS receiver and the satellites based upon these propagation times. The measured range is referred to as pseudorange because there is typically a time offset between timing clocks on the satellites and a clock within the GPS receiver. To determine a three dimensional position, at least four satellite signals are needed to solve for the four unknowns represented by the time offset and the three dimensional position. The nature of the signals transmitted from the GPS satellites is well known from the literature.

L-band carrier signals, referred to as L1 and L2 signals. Two signals are needed if it is desired to eliminate any error that arises due to refraction of the transmitted signals by the ionosphere. The L1 signal from each GPS satellite is Binary Phase Shift Keyed (BPSK) modulated by two pseudorandom codes in phase quadrature. A pseudorandom code sequence is a series of numbers that are random in the sense that knowledge of which numbers have been already received does not provide assistance in predicting the next received number.

Using a binary pseudorandom code to modulate the phase of a carrier signal produces a suppressed carrier spread spectrum signal. The L2 signal from each satellite is BPSK modulated by only one of the pseudorandom codes. 25 Use of the pseudorandom codes allows use of a plurality of GPS satellite signals for determining a receiver's position providing navigation information. Α transmitted by a particular GPS satellite is selected by generating and matching, or correlating, the pseudorandom that particular satellite. 30 code for Some of pseudorandom codes are known and are generated or stored in GPS receivers. Other pseudorandom codes are not publicly known.

With continued reference to Figure 1, a user of 35 the wireless device 10 can prestore an emergency audio message in the memory 18 by depressing one or a sequence of

keys associated with the keypad 20. Thereafter, an analogto-digital (A/D) converter 28 samples and converts the
analog audio signal from the microphone transducer 22 into
binary data for input into the controller 16. As is known
in the art, the controller 16 executes a Vocoder algorithm
to compress the binary emergency message data prior to
being stored in the memory 18. With the emergency message
stored in memory 18, a look-up table is then updated to
point to or otherwise link a dedicated or programmable
turbo-dial key (i.e. E911 key) to the memory locations of
the stored message.

Alternatively, it contemplated is that а dedicated Vocoder chip/circuit can be provided to compress the binary emergency message data prior to being stored in 15 memory 18. For example, IS-95 (CDMA) uses a variable rate the acoustic signal that converts from the microphone into analog electrical signal. The an electrical analog signal is then input into the encoder portion of the Vocoder, which produces a digital stream at 20 a rate that varies frame-to-frame depending on the extent of voice content. The IS-95 Vocoder uses a 20 msec frame. All the bit rates produced by the variable rate Vocoder are reduced to as low a value as possible while quality of the maintaining acceptable analog voice 25 recovered at the base receiver. However, if the voice comes from the Public Switched Telephone Network (PSTN), then the voice spoken into the telephone mouth piece is converted into Pulse Code Modulation (PCM) digital form by PSTN equipment and forwarded to the IS-95 system in that The IS-95 system does not convert the PCM digital 30 form. voice into analog form and then use a Vocoder to produce a digital Vocoder output because this procedure would cause Instead, the PCM digital form is too much distortion. converted directly into the Vocoder digital output format 35 and made available to the base stations for transmission to the mobiles over the IS-95 common air interface. Calls from mobiles have their digital Vocoder bit streams converted directly to PCM format for transmission to destinations terminated in the PSTN.

Mobile-terminated calls use the decoder portion 5 of the Vocoder to recover analog voice from the received The reason why the Vocoder is Vocoder digital signals. variable rate is to reflect the fact that different parts of conversations can be recovered at a receiver using different data rates. For instance, long vowels in the 10 English language carry information that is particularly important for intelligibility. Spoken intervals containing such vowels would typically be transmitted at the highest data rate. When a speaker is silent during a call, a much lower data rate suffices and the data rate is selected to 15 allow the receiver to quickly process the initial portions of the message when the user begins to speak. The lower data rates require lower transmitted power, which in CDMA allows higher capacity.

With reference now to Figure 2, a first routine 20 for playing back, transmitting, or otherwise sending, etc. the prestored audio message during an emergency situation (e.g. the user develops incapacitating chest pains, or slips into insulin shock, or has a severe seizure, etc.) is shown. The emergency telephone call procedure is initiated by depressing a dedicated or conventionally pre-programmed turbo or speed-dial 911 key associated with the keypad 20, and thereafter, a look-up table or other data structure is checked to determine whether a prestored emergency audio message has been assigned to the depressed key (step 100).

If an audio message has not been assigned to the depressed key (i.e. no message has been prestored in memory 18), then the wireless device 10 initiates an E911 call in the same manner as a conventional speed-dialed call (step 110). That is, the controller 16 executes a routine that automatically dials a pre-stored telephone number (e.g. 911) that is assigned to the depressed key. Also, the

controller 16 prompts the geolocation receiver 24 to resolve or otherwise lock on to received GPS signals to generate position data that is transmitted to the E911 call center across the uplink channel through transceiver 12.

5 Thereafter, the emergency call proceeds in a conventional manner whereby a E911 operator answers the call and the user speaks directly to the operator, if possible, to convey the nature of the emergency (step 120).

If an audio message has been assigned to the the wireless (step 100), then 10 depressed kev initiates an E911 call in the same manner as a conventional speed-dialed call (step 130). The controller 16 initiates a timer routine when the wireless device 10 detects an "off-hook" signal condition on the downlink channel (i.e. 15 an E911 operator has answered the emergency call)(step In the embodiment being described, the timer routine is set to time out after (x) seconds, where (x) is in the range of about two seconds to about six seconds and preferably about four seconds. While the timer routine is 20 executing, the controller 16 samples the uplink channel to determine whether the user is presently speaking into the In particular, the controller 16 samples microphone 22. the voice detection section of a Vocoder chip/Vocoder algorithm to detect if the user's voice is presently being

If the timer routine times out without the user's voice (i.e. voice signal) being detected on the uplink channel (i.e. the user is incapacitated or is otherwise unable to speak), then the prestored emergency message is 30 accessed from the memory 18 and transmitted across the uplink channel through the transceiver 12 under the controller 16 the controller 16. The direction of continues to sample the voice detection section of the algorithm during transmission of Vocoder/Vocoder 35 prestored emergency message across the uplink channel, and transmission of the prestored emergency message is canceled

25 picked-up by the microphone 22.

if the user's voice is detected (i.e. the user is now able to speak) (step 150).

Alternately, the transmission of the prestored emergency message across the uplink channel would be terminated if the user depressed any keys on the subscriber unit.

the E911 contemplated that Ιt is communication protocol will support the playback of the prestored emergency message by generating a DTMF signal 10 across the downlink channel. Thus, if E911 operator desires to have the prestored emergency message replayed, the E911 operator simply needs to depress any one of the operator's keypad keys to generate the DTMF signal on the down link (step 160). Thereafter, when the wireless device 15 10 detects the DTMF signal, the prestored emergency message is played back through the transceiver 12 under direction of the controller 16. Otherwise, once the prestored emergency message and the position information are transmitted to the E911 call center, the emergency call 20 proceeds (step 120).

It is recognized that in an emergency situation, it is likely that the wireless device user will immediately begin appealing for assistance after the E911 key is depressed, even if the E911 call has not yet been established. Thus, with reference now to Figure 3, a second routine for playing back a stored audio message during an emergency situation is shown.

The emergency telephone call procedure is initiated by depressing a dedicated or conventionally pre30 programmed turbo or speed-dial 911 key associated with the keypad 20 (step 200). Thereafter, the analog-to-digital (A/D) converter 28 immediately begins to sample and convert analog audio signals from the microphone transducer 22 into binary data for input into the controller 16 (step 210).

35 As previously mentioned, the controller 16 executes a Vocoder algorithm to compress the binary voice data prior

to being stored in the memory 18. If necessary, the controller 16 reclaims memory that was previously used for voice annotation by erasing other messages to make room for storing audio signals presently received from the 5 microphone 22 (step 220).

The wireless device 10 initiates the E911 call in the same manner as a conventional speed-dialed call. That is, the controller 16 executes a routine that automatically dials a pre-stored telephone number (e.g. 911) that is 10 assigned to the depressed key. Also, the controller 16 prompts the geolocation receiver 24 to resolve or otherwise lock on to received GPS signals to generate position data that is transmitted to the E911 call center across the uplink channel through transceiver 12.

The controller 16 initiates a timer routine when 15 device 10 detects an "off-hook" wireless the condition on the downlink channel (i.e. an E911 operator answered the emergency call)(step 230). embodiment being described, the timer routine is set to 20 time out after (x) seconds, where (x) is in the range of about two seconds to about six seconds and preferably about While the timer routine is executing, the four seconds. controller 16 samples the uplink channel to determine whether the user is presently speaking into the microphone In particular, the controller 16 samples 25 22 (step 240). the voice detection section of a Vocoder chip/Vocoder algorithm to detect if the user's voice is presently being picked-up by the microphone 22.

If the user's voice is detected at the microphone 30 before the timer routine times out, then the sampling and storage of the user's voice message in memory 18 is stopped (step 250). Otherwise, if the timer routine times out without detecting the user's voice (i.e. the user is incapacitated or is otherwise unable to speak), then the 35 stored audio message is accessed from memory 18 and transmitted across the uplink channel through the

transceiver 12 under the direction of the controller 16 (step 260). If the E911 operator desires to have the stored audio message replayed, the E911 operator simply depresses any one of the operator's keypad keys to generate a DTMF signal on the down link (step 270). When the wireless device 10 detects the DTMF signal, the stored audio message is played back through the transceiver 12 under the direction of the controller 16. Thereafter, the emergency call proceeds (step 280).

The invention has been described with reference to the preferred embodiments. Obviously, modifications and alterations will occur to others upon reading and understanding the preceding detailed description. It is intended that the invention be construed as including all such modifications and alterations insofar as they come within the scope of the appended claims or the equivalents thereof.

For instance, both of the above described operational flowcharts can be combined in such a manner 20 that the wireless device can pass on a prerecorded message, then append any voice or sounds that occur after the E911 call is initiated.

It is also expected that the pre-stored message can be added to any audio signals present on the microphone 25 and transmitted on the uplink channel. This method of combining audio signal is well known in telephony as "sidetone". Side tone refers to adding the user's voice signal to the received signal and applying both to the speaker thus allowing the user to hear his own voice.

It is also expected that messages other than audio could be stored. For example a text message or a data message could be stored (such as being uploaded into the memory 18 of the wireless device from a laptop, desktop, PDA, etc.) and later sent to an E911 operator in the methods described previously. The data message could be an electronic document, such as a living will, and may

include an electronic signature. If the wireless device is equipped with a camera, the message transferred may include images. The data message can also be a text-to-speech file (synthesized audio message) that is uploaded 5 into the memory 18.

It is further expected that the stored data message could be used for multiple purposes. The radio repertoire is the user information that is stored in the phone and may include such information as: Last Number Dialed; User Name and Address; and stored Names and Phone Numbers. Items from the repertoire (such as home phone number, or next of kin name and number) could be passed to the E911 operator during an emergency call.

We claim:

Claims

- 1. A method for sending a message from a wireless device comprising:
- a) storing the message in a memory associated with the wireless device;
 - b) initiating a call from the wireless device; and
- c) sending the stored message from the wireless 10 device when the call is established.
 - 2. The method of claim 1, further comprising:
 - d) sending position data from the wireless device when the call is established.

- 3. The method of claim 1, wherein step c) comprises the step of:
- d) sending the stored message after a predetermined time has elapsed from when the call is 20 established.
 - 4. The method of claim 1, wherein step c) comprises the step of:
- d) sending the stored message from the wireless 25 device if no audio signals are picked-up by a microphone of the wireless device.
 - 5. The method of claim 1, wherein step c) comprises the step of:
- d) adding audio signals picked-up by a microphone of the wireless device to the stored message and sending the resultant sum.

- 6. The method of claim 1, further comprising:
- d) resending the stored message from the wireless device when a command is detected on a downlink channel.

- 7. The method of claim 1, wherein step b) comprises the step of:
- d) initiating a call from the wireless device by depressing a speed-dial key

- 8. The method of claim 1, wherein step a) comprises the step of:
- d) storing an audio message picked-up from a microphone of the wireless device in a memory associated 15 with the wireless device.
 - 9. The method of claim 1, wherein step a) comprises the step of:
- d) prestoring a data message in a memory 20 associated with the wireless device.
 - 10. The method of claim 9, wherein the data message is part of a radio repertoire.
- 25 11. The method of claim 9, wherein the data message includes a digital signature.
 - 12. The method of claim 1, wherein step c) comprises the step of:
- d) terminating sending the stored message when an audio signal is picked-up by a microphone of the wireless device.

- 13. The method of claim 1, wherein step c) comprises the step of:
- d) terminating sending the stored message when a key of the wireless device is activated.

- 14. A method for sending a message from a wireless device comprising:
 - a) initiating a call from the wireless device;
- b) storing the message in a memory associated 10 with the wireless device when the call is initiated; and
 - c) once the call is established, sending the stored message from the wireless device.
 - 15. The method of claim 14, further comprising:
- d) sending position data from the wireless device once the call is established.
 - 16. The method of claim 14, wherein step c) comprises the step of:
- d) sending the stored message if audio signals are not picked by a microphone of the wireless device within a predetermined time after the call is established.
- 17. The method of claim 14, wherein step c) 25 comprises the step of:
 - d) terminating sending the stored message if audio signals are picked up by a microphone of the wireless device.
- 30 18. The method of claim 14, wherein step c) comprises the step of:
 - d) terminating sending the stored message when a key of the wireless device is activated.

- 19. The method of claim 14, further comprising:
- d) resending the stored message from the wireless device when a command is detected on a downlink channel.

- 20. The method of claim 14, wherein step a) comprises the step of:
- d) initiating a call from the wireless device by depressing a speed-dial key.
- 10 21. The method of claim 14, wherein step b) comprises the step of:
 - d) storing the message picked-up from a microphone of the wireless device in a memory associated with the wireless device.

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- 22. The method of claim 14, wherein step b) comprises the step of:
- d) if necessary, reallocating the memory to store the message.

- 23. A wireless device comprising:
- a keypad;
- a transceiver;
- a memory; and
- a controller programmed to:
 - a) store a message in the memory;
 - b) initiate a call from the wireless
 device in response to a key stroke; and
- c) transmit the stored message through the transceiver when the call is established.

- 24. The wireless device of claim 23, further comprising:
- a geolocation receiver for determining position data for the device; and
- 5 the controller further programmed to:
 - d) transmit the position data through the transceiver when the call is established.
- 25. The wireless device of claim 23, wherein the 10 controller is further programmed to:
 - d) retransmit the stored message through the transceiver when a command is detected on a downlink channel.
- 15 26. The wireless device of claim 23, wherein the controller is further programmed to:
 - d) transmit the stored message through the transceiver after a predetermined time has elapsed from when the call is established.

- 27. The wireless device of claim 23, wherein the controller is further programmed to:
 - d) reallocate the memory to store the message.

- 28. The wireless device of claim 23, wherein the controller is further programmed to:
- d) terminate transmission of the stored message when a voice signal is picked-up by a microphone of the wireless device.
 - 29. The wireless device of claim 23, wherein the controller is further programmed to:
- d) terminate transmission of the stored
 message when a key of the wireless device is activated.

- 30. A wireless device comprising:
- a keypad;
- a transducer;
- 5 a transceiver;
 - a memory; and
 - a controller programmed to:
 - a) store a message in the memory;
 - b) initiate a call from the wireless device in response to a key stroke; and
 - c) combine the stored message with an audio signal from the transducer and transmit the combined signal through the transceiver when the call is established.

METHOD AND APPARATUS FOR STORING A MESSAGE FOR PLAYBACK DURING A USER-INITIATED EMERGENCY TELEPHONE CALL FROM A WIRELESS DEVICE

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Abstract of the Disclosure

A wireless device such as a cellular phone is disclosed. The cellular phone is adapted to store a voice message 10 picked-up by a microphone and store voice data representing the voice message in a memory. The cellular phone is further adapted to initiate a call such as an emergency 911 call in response to a turbo-dial or speed-dial key stroke initiated by the user. The cellular phone transmits the 15 stored voice message, along with position data obtained by an onboard geolocation receiver, when the call is established.

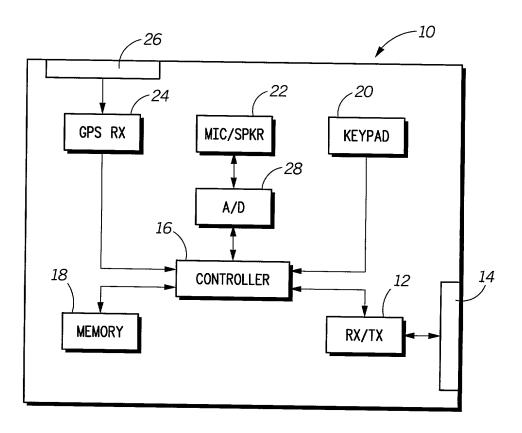


FIG. 1

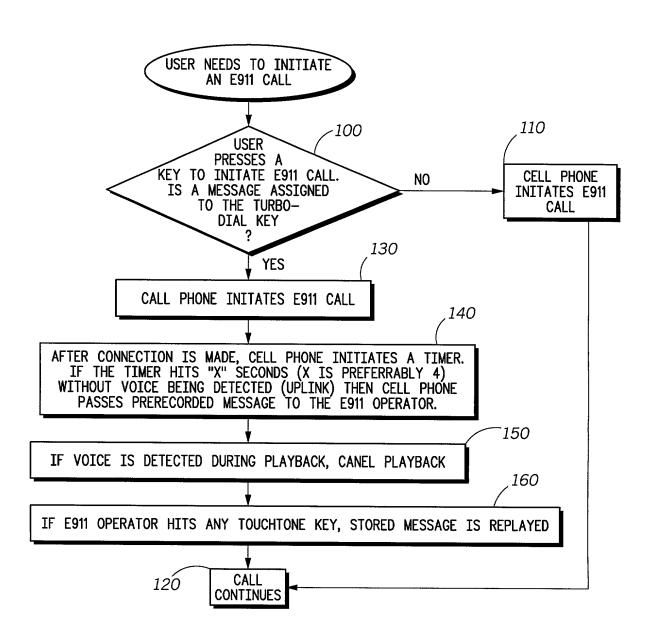


FIG. 2

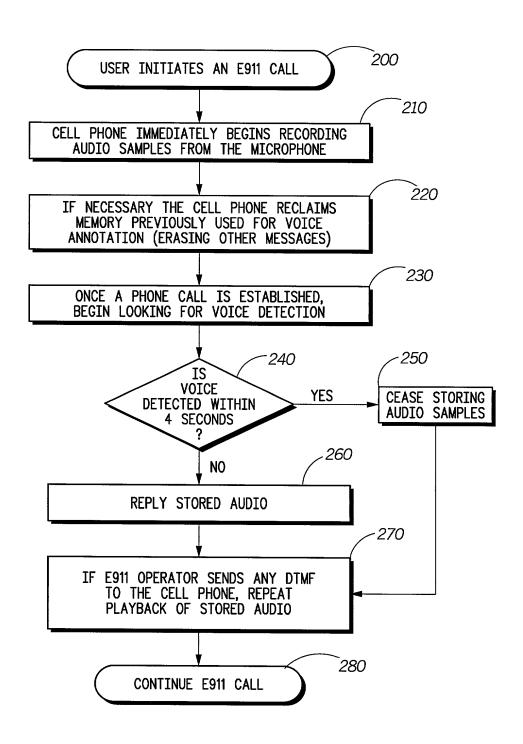


FIG. 3

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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Docket No. <u>CS10557</u>

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND APPARATUS FOR STORING A MESSAGE FOR PLAYBACK DURING A USER-INITIATED
EMERGENCY TELEPHONE CALL FROM A WIRELESS DEVICE, the specification of which is attached hereto unless the following box is checked:

following box is ch		WINELESS DEVICE, the specifical	ion of which is attached hereto unless the
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	and was amended o	n	·
I hereby state that as amended by an	I have reviewed and underly amendment referred to a	erstand the contents of the above idealbove.	entified specification, including the claims,
acknowledge the 37, Code of Feder	duty to disclose informatio al Regulations, §1.56.	n that is material to the examination o	of this application in accordance with Title
patent or inventor	s certificate listed below a	r Title 35, United States Code, § 11 nd have also identified below any for application on which priority is clain	9(a)-(d) of any foreign application(s) for patent or inventor's med
Prior Foreign Appli		,,	Priority Claimed
(Serial No.)	(Country)	(Day/Month/Year Filed)	Yes No
(Serial No.)	(Country)	(Day/Month/Year Filed)	
I hereby claim the below.	benefit under Title 35, Unit	ed States Code, § 119(e) of any Unite	ed States provisional application(s) listed
(Serial No.)		(Filing Date)	

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	aforesaid, foregoing signed, se	Pelland R Hackbart, do hereby certify that the saminstrument, appeared before me	a Notary Public in and for the County and State e persons whose names are subscribed to the this day in person and acknowledged that they nt as their free and voluntary act and deed for the	
	Giv	•	al this 29th day of June, 2000. Rollend Roberbout Notary Public My commission expires: 10-16-2001	
The state of the s	Mike Kotzin (STATE OF (COUNTY C		DATE 6, 2000	
Sirely House well gives the first the street that the stre	I, <u>TENVIPER MAGNESS</u> , a Notary Public in and for the County and State aforesaid, do hereby certify that the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered said instrument as their free and voluntary act and deed for the uses and purposes therein set forth.			
E about	Giv	en under my hand and notarial se	al this <u>67H</u> day of	
	SEAL	OFFICIAL SEAL JENNIFER MAGNESS NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES:03/26/02	Notary/Public My commission expires: 3/26/62	

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	EXPRESS MAIL NO.: EL541224298US		
Rob Bero	<u>06-30-00</u> DATE		
(STATE OF ILLINOIS) (COUNTY OF LAKE)			
I, Rolland R Hackbart, a Notary Public in and for the County and State aforesaid, do hereby certify that the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered said instrument as their free and voluntary act and deed for the uses and purposes therein set forth.			
Given under my hand and notarial seal this 30th day of, 2000.			
OFFICIAL SEAL ROLLAND R. HACKBART	Lolland Robbart Notary Public		
SEAL NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 10-16-2001	My commission expires: 10-16-200/		